

FORM PTO/SB/08A/B (10-01)
Substitute for PTO-1449A/B

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Attorney Docket Number	36928/NJP/B600
Application Number	09/729,443
Filing Date	December 4, 2000
Applicant(s)	Steven Jaffe, et al.
Group Art Unit	2133
Examiner Name	To be assigned

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U.S. PATENT DOCUMENTS

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EXAMINER INITIALS	Cite No. ¹	DOCUMENT NUMBER Number - kind code ² . (If known)	PUBLICATION DATE MM-DD-YYYY	NAME OF PATENTEE
JAT		4,979,175 A1	12-18-1990	Porter
JAT		5,742,612 A1	04-21-1998	Gourgues et al.

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FOREIGN PATENT DOCUMENTS

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EXAMINER INITIALS	Cite No. ¹	Foreign Patent Document Country Code ³ - Number ⁴ . Kind Code ⁵ (If known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	T ⁶ (✓)
JAT		EP 1030457A2	08-23-2000	Interuniversitair Microelektronica Centrum	
JAT		GB 2346782A	08-16-2000	Sagem SA	
JAT		FR 2724522A1	03-15-1996	France Telecom	Abstract only
JAT		EP 0973292A2	01-19-2000	Nortel Networks Corporation	

OTHER DOCUMENTS

EXAMINER INITIALS	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
JAT		SCHURGERS C. ET AL.: "Energy Efficient Data Transfer and Storage Organization for a MAP Turbo Decoder Module"; XP010355952; August 16, 1999, pp. 76-81, ISBN: 1-58113-133-X.
JAT		COLLINS O. M. ET AL.: "Iterative Decoding of Non-Systematic Turbo-Codes"; 2000 IEEE International Symposium on Information Theory, Sorrento, Italy, June 25-30, 2000, p. 172, ISBN: 0-7803-5857-0. XP-002196773

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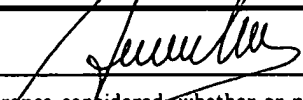
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OTHER DOCUMENTS

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JAT		MORLET C. ET AL.: "A Carrier Phase Estimator For Multi-media Satellite Payloads Suited to RSC Coding Schemes"; IEEE 2000, June 18, 2000, pp. 455-459 vol. 1; ISBN: 0-7803-6283-7. XP-002193197
JAT		PROAKIS J.G.: "Digital Communications" 1991, Modulation and Demodulation for the Additive Gaussian Noise Channel", McGraw-Hill, New York; XP002193198 181370, pp 234-271.

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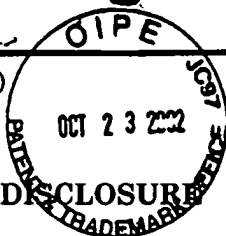
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIALS	Cite No. ¹	Foreign Patent Document Country Code ³ - Number ⁴ - Kind Code ⁵ (If known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	T ⁶ (✓)
JAT		EP 1 009 098 A1	06-14-2000	Sony International (Europe)	
JAT		WO 02/41563 A2	05-23-2002	Interdigital Technology Corporation	

OTHER DOCUMENTS

EXAMINER INITIALS	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
JAT		AGRAWAL, Dakshi, et al.; "On the Phase Trajectories of the Turbo-Decoding Algorithm"; 1999 IMA Summer Program Codes, Systems and Graphical Models; http://www.comm.csl.uiuc.edu/~dakshi ; 08-03-1999; pages 1-22; XP-002207488;
JAT		BUCKLEY, Michael E., et al.; "The Design and Performance of a Neural Network for Predicting Turbo Decoding Error with Application to Hybrid ARQ Protocols"; IEEE Transactions on Communications; April 2000; pages 566-576; Vol. 48., No. 4; XP-000932188; IEEE

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JAT		EBEL, William J.; "Turbo Code Implementation on the C6x"; Texas Instruments DSPS Fest '99; August 1999; pages 1-13; XP002207490; Houston, TX
JAT		RAJASHEKHARA, T.M.; "Signature Analyzers in Built-In-Self-Test Circuits: A Perspective"; Proceedings of the 1990 IEEE Southern Tier Technical Conference ; 25 April 1990; pages 275-281; XP-010010765
JAT		SHAO, Rose Y., et al.; "Two Simple Stopping Criteria for Turbo Decoding" IEEE Transactions on Communications; 08-08-1999; pages 1117-1120; Vol. 47, No. 8; XP-000848102; IEEE
JAT		WU, Yufei, et al.; "A Simple Stopping Criterion for Turbo Decoding"; IEEE Communications Letters; August 2000; pages 258-260; Vol. 4, No. 8; XP-000959692; IEEE
JAT		Internet Papers: "Codes, Systems and Graphical Models"; 1999 IMA Summer Program; http://www.ima.umn.edu/csg/ ; August 2-13, 1999; pages 1-6; XP-002207489

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JAT		US-4,677,625	06-30-1987	Betts et al.
JAT		US-4,677,626	06-30-1987	Betts et al.
JAT		US-5,181,209	01-19-1993	Hagenauer et al.
JAT		US-5,406,570	04-11-1995	Berrou et al.
JAT		US-5,446,747	08-29-1995	Berrou
JAT		US-5,563,897	10-08-1996	Pyndiah et al.
JAT		US-5,666,378	09-09-1997	Marchetto et al.
JAT		US-5,675,585	10-07-1997	Bonnot et al.
JAT		US-5,703,911	12-30-1997	Lin et al.
JAT		US-5,721,745	02-24-1998	Hladik et al.
JAT		US-5,734,962	03-31-1998	Hladik et al.
JAT		US-5,761,248	06-02-1998	Hagenauer et al.
JAT		US-5,841,818	11-24-1998	Lin et al.
JAT		US-5,907,582	05-25-1999	Yi
JAT		US-5,933,462	08-03-1999	Viterbi et al.
JAT		US-5,970,085	10-19-1999	Yi
JAT		US-5,978,365	11-02-1999	Yi
JAT		US-5,983,384	11-09-1999	Ross
JAT		US-5,983,385	11-09-1999	Khayrallah et al.
JAT		US-5,996,104	11-30-1999	Herzberg
JAT		US-6,016,568	01-18-2000	Wolf et al.

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JAT		WO-99/19994 A2	04-22-1999	Teledesic LLC	
JAT		EP-0940957 A1	09-08-1999	Nippon Hoso Kyokai	
JAT		EP-0891656 B1	09-15-1999	France Telecom	
JAT		EP-0986181 A2	03-15-2000	NDS Limited	
JAT		WO-01/43310 A2	06-14-2001	Broadcom Corporation	
JAT		WO-02/21702 A1	03-14-2002	Broadcom Corporation	
JAT		WO-02/23738 A2	03-21-2002	Broadcom Corporation	
JAT		WO-02/23739 A2	03-21-2002	Broadcom Corporation	

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JAT		BENEDETTO, S., ET AL., "Parallel Concatenated Trellis Coded Modulation," Jet Propulsion Laboratory, California Institute of Technology, 5 pages.
JAT		RAMSEY, JOHN L., "Realization of Optimum Interleavers," <i>IEEE Transactions on Information Theory</i> , May 1970, pages 338-345, Vol. IT-16, No. 3.
JAT		UNGERBOECK, Gottfried, "Channel Coding with Multilevel/Phase Signals," <i>IEEE Transactions on Information Theory</i> , January 1982, pages 55-66, Vol. IT-28, No. 1.
JAT		BATTAIL, GÉRARD, ET AL., "Suboptimum Decoding Using Kullback Principle," in <i>Lecture Notes in Computer Science</i> , 1988, pages 93-101, No. 313, B. Bouchon et al. Eds.
JAT		MOHER, MICHAEL, "Decoding Via Cross-Entropy Minimization," <i>Proceedings IEEE GLOBECOM Conference</i> , Houston, TX, December 1993, pages 809-813.

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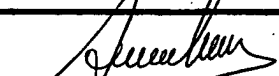
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OTHER DOCUMENTS

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JAT	✓	DOLINAR, S., ET AL., "Weight Distributions for Turbo Codes Using Random and Nonrandom Permutations," TDA Progress Report 42-122, Jet Propulsion Laboratory, August 1995, pages 56-65.
JAT	✓	FAZEL, K., ET AL., "Combined Multilevel Turbo-Code with 8PSK Modulation," <i>Global Telecommunications Conference, 1995. Conference Record. Communication Theory Mini-Conference, GLOBECOM '95. IEEE Singapore</i> , November 13, 1995, pages 649-653.
JAT	✓	DIVSALAR, D., ET AL., "Effective Free Distance of Turbo Codes," <i>Electronics Letters</i> , February 29, 1996, pages 445-446, Vol. 32, No. 5.
JAT	✓	HAGENAUER, JOACHIM, ET AL., "Iterative Decoding of Binary Block and Convolutional Codes," <i>IEEE Transactions on Information Theory</i> , March 1996, pages 429-445, Vol. 42, No. 2.
JAT	✓	BERROU, CLAUDE, "Near Optimum Error Correcting Coding and Decoding: Turbo-Codes," <i>IEEE Transactions on Communications</i> , October 1996, pages 1261-1271, Vol. 44, No. 10.
JAT	✓	PIETROBON, STEVEN S., "Implementation and Performance of a Turbo/MAP Decoder," a paper submitted to the <i>International Journal of Satellite Communications</i> , February 21, 1997, rev. December 4, 1997 and April 2, 1998, 45 pages.
JAT	✓	VITERBI, ANDREW J., "An Intuitive Justification and a Simplified Implementation of the MAP Decoder for Convolutional Codes," <i>IEEE Journal on Selected Areas in Communications</i> , February 1998, pages 260-264, Vol. 16, No. 2.
JAT	✓	HSU, JAH-MING, ET AL., "A Parallel Decoding Scheme for Turbo Codes," <i>ISCAS '98. Proceedings of the 1998 IEEE International Symposium on Circuits and Systems</i> , Monterey, CA, May 31, 1998, pages 445-448.
JAT	✓	GROSS, W.J., ET AL., "Simplified MAP Algorithm Suitable for Implementation of Turbo Decoders," <i>Electronics Letters</i> , August 6, 1998, pages 1577-1578, Vol. 34, No. 16.

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JAT	/	YUE, CHUNG-WAI, ET AL., "On the FER Performance and Decoding Complexity of Turbo Codes," 1999 IEEE 49 th Vehicular Technology Conference, Houston, TX, May 16, 1999, pages 2214-2218.
JAT	/	KIM, BONGHOE, ET AL., "Reduction of the Number of Iterations in Turbo Decoding Using Extrinsic Information," IEEE TENCON, 1999, pages 494-497.
JAT	/	RICHARDSON, TOM, "The Geometry of Turbo-Decoding Dynamics," IEEE Transactions on Information Theory, January 2000, pages 9-23, Vol. 46, No. 1.
		SCHLEGEL, CHRISTIAN, Trellis Coding, 1997, IEEE Press, Piscataway, New Jersey (entire book).
		HEEGARD, CHRIS, ET AL., Turbo Coding, 1999, Kluwer Academic Publishers, Norwell, Massachusetts (entire book).
		VUCETIC, BRANKA, ET AL., Turbo Codes Principles and Applications, 2000, Kluwer Academic Publishers, Norwell, Massachusetts (entire book).
		SKLAR, BERNARD, Digital Communications Fundamentals and Applications, Second Edition, 2001, Prentice Hall PTR, Upper Saddle River, New Jersey (entire book).

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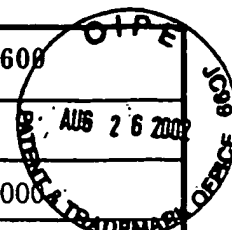
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JAT		US 5,784,300	07-21-1998	Neumeier et al.
JAT		US 6,182,261 B1	01-30-2001	Haller et al.
JAT		US 2001/0028690 A1	10-11-2001	Ebel, Sr.

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AUG 28 2002

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FOREIGN PATENT DOCUMENTS

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JAT		WO 02/19552	03-07-2002	Broadcom Corporation	
JAT		WO 02/37691	05-10-2002	Broadcom Corporation	

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Group Art Unit	2133
Examiner Name	Not yet assigned

U.S. PATENT DOCUMENTS

EXAMINER INITIALS	Cite No. ¹	DOCUMENT NUMBER Number - kind code ² (if known)	PUBLICATION DATE MM-DD-YYYY	NAME OF PATENTEE
JAT		5,349,608	09-20-1994	Graham et al.
JAT		US 6,304,996 B1	10-16-2001	Van Stralen et al.

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FOREIGN PATENT DOCUMENTS

EXAMINER INITIALS	Cite No. ¹	Foreign Patent Document Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	T ⁶ (✓)
JAT		EP 0 843 437 A2	05-20-1998	NTT Mobile Communications Network, Inc.	

OTHER DOCUMENTS

EXAMINER INITIALS	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
JAT		CLARK, G.C., et al.; "Error-Correction Coding for Digital Communications"; Error Correction Coding for Digital Communication; 1981; pages 349-352; XP002131001
JAT		SHOEMAKE, Mathew B., et al.; "Turbo Codes for High Order Constellations"; Information Theory Workshop; 22 June 1998; pages 6-7; XP010297309; IEEE; USA
JAT		WANG, Zhongfeng, et al.; "VLSI Implementation Issues of Turbo Decoder Design for Wireless Applications"; Signal Processing Systems; 20 October 1999; pages 503-512; XP010370879

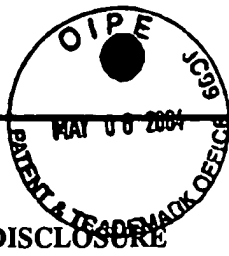
EXAMINER SIGNATURE		DATE CONSIDERED	11/17/2004
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FORM PTO/SB/08A/B (10-01) Substitute for PTO-1449A/B INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)	Attorney Docket Number	36928/RRT/B600
	Application Number	09/729,443
	Filing Date	December 4, 2000
	Applicant(s)	Steven T. Jaffe, et al.
	Group Art Unit	2631
	Examiner Name	Chi H. Pham

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U.S. PATENT DOCUMENTS				
EXAMINER INITIALS	Cite No. ¹	DOCUMENT NUMBER Number - Kind Code ² (If Known)	PUBLICATION DATE MM-DD-YYYY	NAME OF PATENTEE
JAT		US 6,202,189 B1	03-13-2001	HINEDI, et al.
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FOREIGN PATENT DOCUMENTS					
EXAMINER INITIALS	Cite No. ¹	Foreign Patent Document Country Code ² - Number ³ - Kind Code ⁴ (If Known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	T ⁵ (✓)

OTHER DOCUMENTS		
EXAMINER INITIALS	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
JAT		Written Opinion for corresponding international application No. PCT/US01/28875 (dated April 20, 2004)

EXAMINER SIGNATURE		DATE CONSIDERED	11/17/2004
<small>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.pto.gov or MPEP 901.4. ³Enter Office that issued the document, by the two-letter code (WIPO standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English Language Translation is attached.</small>			

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Sheet 1 of 1

FORM PTO/SB/08A/B (10-01)
Substitute for PTO-1449A/B

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Attorney Docket Number 36928/RRT/B600

Application Number 09/729,443

Filing Date December 4, 2000

Applicant(s) Steven T. Jaffe, et al.

Group Art Unit 2631

Examiner Name Chi H. Pham

U.S. PATENT DOCUMENTS

EXAMINER INITIALS	Cite No. ¹	DOCUMENT NUMBER Number - kind code ² . (If known)	PUBLICATION DATE MM-DD-YYYY	NAME OF PATENTEE
JAT		6,065,147	05-16-2000	Pyndiah et al.
JAT		6,119,264	09-12-2000	Berrou et al.
JAT		6,122,763	09-19-2000	Pyndiah et al.

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FOREIGN PATENT DOCUMENTS

EXAMINER INITIALS	Cite No. ¹	Foreign Patent Document Country Code ³ - Number ⁴ - Kind Code ⁵ (If known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	T ⁶ (✓)

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EXAMINER INITIALS	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.

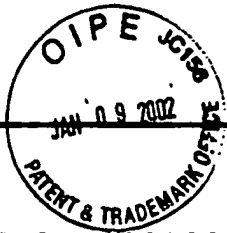
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FORM PTO-1449

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Attorney Docket Number	36928/CAG/B600
Application Number	09/729,443
Filing Date	December 4, 2000
Applicant(s)	Steven Jaffe, et al.
Group Art Unit	2133
Examiner Name	To be assigned

U.S. PATENT DOCUMENTS


EXAMINER INITIALS	DOCUMENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

EXAMINER INITIALS	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS

EXAMINER INITIALS	Include name of the author (in CAPITAL LETTERS), title of the article, title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
JAT	BERROU, Claude, et al., "Near Shannon Limit Error-Correcting Coding and Decoding: Turbo-Codes (1)," IEEE International Conference on Communications '93, May 23-26, 1993, Geneva, Switzerland; 1993; p.p. 1064-1070; Vol. 2/3--XP000371240; IEEE; New York, U.S.
JAT	LANGLAIS, Charlotte, et al., "Synchronisation in the Carrier Recovery of a Satellite Link Using Turbo-Codes With the Help of Tentative Decisions," IEE Colloquium- Turbo Codes in Digital Broadcasting - Could it Double Capacity?, 11/22/1999; p.p. 5/1-5/7; XP002178507; IEE, London, UK
JAT	ROBERTSON, Patrick, et al., "Bandwidth-Efficient Turbo Trellis-Coded Modulation Using Punctured Component Codes," IEEE Journal on Selected Areas in Communications; 02/1998; p.p. 206-218; Vol. 16, No. 2--XP000741775; IEEE; New York, U.S.
JAT	International Search Report for Application No. PCT/US00/42545, filed on 12/04/2000

EXAMINER SIGNATURE		DATE CONSIDERED	11/17/2004
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